

B.M.S. College of Engineering, Bengaluru-560019

Autonomous Institute Affiliated to VTU

September / October 2023 Supplementary Examinations

Programme: B.E.

Branch: Industrial Engineering and Management

Course Code: 19IM3DCMAP

Course: Manufacturing Process

Semester: III

Duration: 3 hrs.

Max Marks: 100

Date: 15.09.2023

Instructions: 1. Answer any FIVE full questions, choosing one full question from each unit.
2. Missing data, if any, may be suitably assumed.

UNIT - I

- 1 a) Discuss the Terminology used in case of a Single Point Cutting Tool **10**
b) Explain about the desired properties of a cutting fluid? **10**

OR

- 2 a) Explain the different materials used in cutting tools. **10**
b) Discuss about chip formation during machining. **10**

UNIT - II

- 3 a) Explain the Laser Beam Machining (LBM) process using a neat diagram. Also mention its advantages and disadvantages. **10**
b) What are the steps involved in the Stereo lithographic process of Rapid Prototyping? **10**

UNIT - III

- 4 a) Explain briefly the properties of Base Sand. **10**
b) With a neat diagram, explain the working principle of Continuous Casting process **10**

OR

- 5 a) With the aid of a neat sketch, explain the various allowances used in patterns. **10**
b) Explain with a neat diagram, the working principle of High Pressure Die casting process **10**

UNIT - IV

- 6 a) Explain the Thermit welding process with appropriate diagrams. **10**
b) What is meant by Explosive welding? Describe using a neat sketch. **10**

Important Note: Completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Revealing of identification, appeal to evaluator will be treated as malpractice.

UNIT - V

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| 7 | a) Discuss briefly the different Zones in HAZ. | 10 |
| | b) Explain the Eddy Current Testing Process used in NDT, with a neat diagram. | 10 |

SUPPLEMENTARY EXAMS 2023